



SEQUENCE LISTING

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TECH CENTER 1600/2900

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<120> NON-ANAPHYLACTIC FORMS OF ALLERGENS AND THEIR USE

<130> 1614-251P

<140> 09/897,042

<141> 2001-07-03

<160> 21

<170> PatentIn Ver. 2.0

<210> 1

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Oligonucleotide
Primer

<400> 1

gaggaattcc atatgggtgt tttcaattac

30

<210> 2

<211> 29

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Oligonucleotide
Primer

<400> 2

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29

<210> 3

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Oligonucleotide
Primer

<400> 3

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28

<210> 4

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Oligonucleotide
Primer

<400> 4

coggaattcc cgctcgagct attagttgta ggcacgcgag tg

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<210> 5

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Oligonucleotide
Primer

<400> 5

cggggtgatg ggtgttttca attac

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<212> DNA

<213> Artificial Sequence

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Primer

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<210> 7

<211> 36

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Oligonucleotide
Primer

<400> 7
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<210> 8
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 Primer

<400> 8
 cggaattcgt tgtaggcacg ggagtg 26

<210> 9
 <211> 29
 <212> DNA
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 Primer

<400> 9
 gggaattcca tatgggtgtt ttcaattac 29

<210> 10
 <211> 30
 <212> DNA
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<400> 10
 cggggtacct tactcatcaa ctctgtcctt 30

<210> 11
 <211> 30
 <212> DNA
 <213> Artificial Sequence

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 <223> Description of Artificial Sequence:Oligonucleotide
 Primer

<400> 11
 gggaattcca tatggtggac cacacaaatc 30

<210> 12
<211> 27
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence:Oligonucleotide
Primer

<400> 12
cggggtacct tagttgtagg catcgga 27

<210> 13
<211> 24
<212> DNA
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<221> CDS
<222> (1)..(24)

<400> 13
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Met Asn Leu Val Pro Met Asn
1 5

<210> 14
<211> 7
<212> PRT
<213> Betula sp.

<400> 14
Met Asn Leu Val Pro Met Asn
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<210> 15
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<212> DNA
<213> Betula sp.

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<221> CDS
<222> (1)..(144)

<400> 15
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Met Asn Leu Val Pro Met Asn Pro Leu Val Met Asn Glu Phe Cys Arg
1 5 10 15

tat cca tca cac tgg cgg ccg ctc gag cag atc cgg ctg cta aca aag 96
Tyr Pro Ser His Trp Arg Pro Leu Glu Gln Ile Arg Leu Leu Thr Lys
20 25 30

ccc gaa agg aag ctg agt tgg ctg ctg cca ccg ctg agc aat aac tag 144
 Pro Glu Arg Lys Leu Ser Trp Leu Leu Pro Pro Leu Ser Asn Asn
 35 40 45

<210> 16
 <211> 47
 <212> PRT
 <213> Betula sp.

<400> 16
 Met Asn Leu Val Pro Met Asn Pro Leu Val Met Asn Gly Phe Cys Arg
 1 5 10 15
 Tyr Pro Ser His Trp Arg Pro Leu Glu Gln Ile Arg Leu Leu Thr Lys
 20 25 30
 Pro Glu Arg Arg Leu Ser Trp Leu Leu Pro Pro Leu Ser Asn Asn
 35 40 45

<210> 17
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 <213> Betula sp.

<220>
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 <222> (1)..(51)

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 1 5 10 15
 taa 51

<210> 18
 <211> 16
 <212> PRT
 <213> Betula sp.

<400> 18
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<210> 19
 <211> 12
 <212> PRT
 <213> Betula sp.

<400> 19

Gly Pro Gly Thr Ile Lys Lys Ile Ser Phe Pro Glu
1 5 10

<210> 20
<211> 12
<212> PRT
<213> Betula sp.

<400> 20
Thr Ile Lys Lys Ile Ser Phe Pro Glu Gly Phe Pro
1 5 10

<210> 21
<211> 12
<212> PRT
<213> Betula sp.

<400> 21
Lys Ile Ser Phe Pro Glu Gly Phe Pro Phe Lys Tyr
1 5 10